

CENTRAL PNEUMATIC®
Professional
AIR GRAVITY SPRAY
GUN, 20 OUNCES
Model 47016
ASSEMBLY and OPERATING
INSTRUCTIONS



3491 Mission Oaks Blvd., Camarillo, CA 93011
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For technical questions and replacement parts, please call 1-800-444-3353

IMPORTANT: Before using for the first time, the spray gun must be cleaned using a solvent-based thinner. If not removed, the red oil used by the manufacturer for testing and corrosion protection may contaminate paint. IMPORTANT: The Spray Gun must be cleaned immediately after use. Improper cleaning is a common reason for the Spray Gun not to work.

Specifications

Cup Capacity	20 Ounces
Air Inlet	1/4" - 18 NPS
PSI Range	50 - 70 PSI
Dimensions	1-1/2" W X 6" L X 7-3/8" H
Nozzle Size	.059"
Weight	1.15 Lbs.
Air Consumption	14 CFM
Air Supply	Recommended 1- 3 Horsepower Air Compressor (not included)

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Do not force tool.** It will do the job better and more safely at the rate for which it was intended. Do not use inappropriate attachments in an attempt to exceed the tool capacity.
6. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. Do not modify this tool and do not use this tool for a purpose for which it was not intended.

7. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically nonconductive clothes and nonskid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
8. **Use eye and breathing protection.** Always wear ANSI-approved impact safety goggles. Wear an ANSI-approved respirator when spraying.
9. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
10. **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords and hoses periodically and, if damaged, have them repaired by an authorized technician. The handles must be kept clean, dry, and free from oil and grease at all times.
11. **Disconnect power.** When not in use disconnect from compressor.
12. **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before plugging it in.
13. **Avoid unintentional starting.** Do not carry any tool with your finger on the trigger, whether it is plugged in or not.
14. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
15. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.
16. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
17. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty.
18. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
19. **Use proper size and type extension cord.** If an extension cord is required, it must be of the proper size and type to supply the correct current to the air compressor without heating up. Otherwise, the extension cord could melt and catch fire, or cause electrical damage to the air compressor. Check air compressor manual.
20. **Maintenance.** For your safety, maintenance should be performed regularly by a qualified technician.
21. **Keep aware of air hoses.** Be careful not to trip over air hoses while working. Check air connections periodically.

22. **Do not operate Spray Gun near open flames, pilot lights, heaters, or any other heat source.** Make sure you have adequate ventilation. Most solvents and paints are extremely flammable, especially when sprayed. Never smoke cigarettes in the same room you are working in.
23. **Read labels on cleaning solvents and paint coatings.** Chlorinated solvents such as 111-Trichloroethane and Methylene Chloride (also known as methyl-chloride) can chemically react with aluminum and may explode. Many paint sprayers contain aluminum. Contact solvent manufacturer or paint supplier if your are in doubt.
24. **Paints and solvents may be harmful or fatal if swallowed or inhaled.** Always use a respirator when spraying. Avoid prolonged skin contact with solvents or paints as they will irritate skin. After contact, immediately wash off exposed area with hot, soapy water.
25. **Check all Spray Gun Seals and Air Connection.** Before use, make sure the **Lid (#23)** is fully tightened to the **Cup (#19)**. Make sure the air hose is securely fastened to the **Gun Body (#13)**.

Note: Performance of the compressor (if powered by line voltage) may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator. Additionally, read all of the warnings and instructions provided in the instruction manual of the air compressor you will be using.

WARNING: This product contains or, when used, produces a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (California Health & Safety Code § 25249.5, *et seq.*)

Unpacking

When unpacking, check to make sure the parts listed on page 8 are included. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

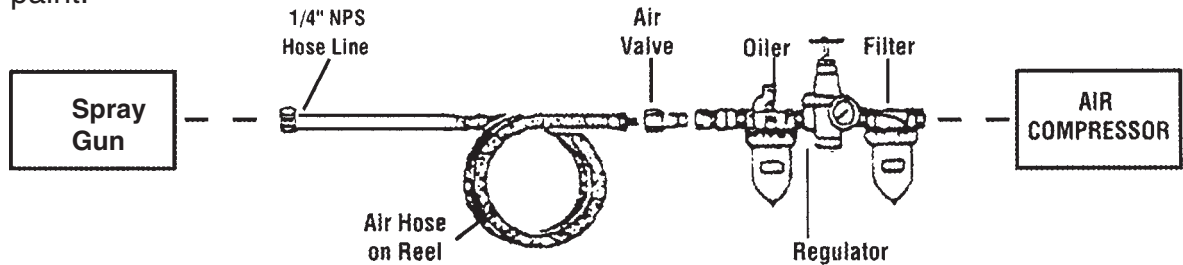
Assembly

Refer to Assembly Drawing on page 9.

1. To attach the **Cup (#19)**, screw it onto the **Connector (#43)**.
2. Screw the **Air Connector (#40)** into the bottom of the **Body (#13)**.

Operation

Warning! Never allow the Spray Gun and **Cup (#19)** to lay on it's side when the **Cup (#19)** is full of paint.



Recommended Air Line Components

For best service, you should incorporate an oiler, a regulator, and an inline air filter, as shown above. All are available at Harbor Freight Tools.

Note: It is recommended that you test the Spray Gun on scrap material, to become familiar with the available adjustments, prior to use.

1. Remove the **Lid (#23)** on the **Cup (#19)** and add no more than 10 ounces of paint. Replace the **Lid (#23)**.
2. Connect the air hose to the **Air Connector (#40)** and set the pressure to 50 PSI. Do not exceed 70 PSI.
3. Squeeze the **Trigger (#31)** to test the pattern.
4. Spray from a distance of approximately four to eight inches while keeping the Spray Gun perpendicular to the ground.
5. Maintain your distance as you evenly move from side to side. Do not fan or arc the Spray Gun or the paint will apply unevenly.
6. When you finish spraying, release the **Trigger (#31)**, and disconnect the air hose.
7. Empty the **Cup (#19)**. Never store the **Cup (#19)** with paint in it.

Warning! Even after the compressor is shut down, the **Cup (#19)** may still be pressurized. Open it slowly and carefully.

Adjustments

1. You can fine tune the air pressure by slowly turning the **Air Adjustment Screw Valve Assy. (#A5)**. You may also adjust the pressure with the air compressor. Make sure you do not exceed the recommended 70 PSI.
2. You can adjust the amount of fluid coming through the gun with the **Fluid Control Knob (#18)**. Loosen the **Fluid Control Knob Lock (#17)**, make the adjustment, and tighten the **Fluid Control Knob Lock (#17)**.

Warning! Keep your hand away from the **Trigger (#31)** while adjusting jet shape.

3. To adjust the spray pattern, turn the **Air Cap (#3)**.

Troubleshooting

Problem 1: Heavy top/bottom, or right/left pattern.

- Cause:** Material buildup on **Air Cap (#3)**.
Partially plugged **Air Cap (#3)** center holes.
- Solution:** Remove **Air Cap (#3)**, soak in solvent, and wipe clean.
- Cause:** Material partially plugging Tip of Gun.
- Solution:** Remove **Air Cap (#3)** and clean.
- Cause:** Damaged **Paint Needle (#14)**.
- Solution:** Have a qualified technician replace the **Paint Needle (#14)** .

Problem 2: Heavy Center Pattern

- Cause:** Too much paint.
- Solution:** Reduce fluid flow with the **Fluid Control Knob (#18)**.
Loosen the **Fluid Control Knob Lock (#17)**, make the adjustment and tighten the **Fluid Control Knob Lock (#17)**.
- Cause:** Coating too thick.
- Solution:** Thin out coating.

Problem 3: Split spray pattern.

- Cause:** Pressure too high.
- Solution:** Reduce air pressure at the regulator.
- Cause:** Not enough paint.
- Solution:** Increase fluid flow with the **Fluid Control Knob (#18)**.
Loosen the **Fluid Control Knob Lock (#17)**, make the adjustment, and tighten the **Fluid Control Knob Lock (#17)**.

Problem 4: Jerky or fluttering spray.

- Cause:** Insufficient paint.
- Solution:** Fill **Cup (#19)**.
- Cause:** Gun and **Cup (#19)** tipped at excessive angle.
- Solution:** Correct angle.

Problem 5: Air mixes with paint.

- Cause:** Worn **Air Adjustment Screw Valve Assy. (Set A)**.
- Solution:** Have a qualified technician replace the **Air Adjustment Screw Valve Assy. (Set A)**

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Maintenance

Cleaning (Gun should be attached to compressor to complete the cleaning process)

Warning!! Do not use paint strippers on this unit as they will damage the aluminum. Never allow the unit to lay on it's side while paint is in the **Cup (#19)**.

1. Empty paint from **Cup (#19)** and add small amount of clean solvent. Replace **Lid (#23)** and shake **Cup (#19)** vigorously. At the lowest possible pressure, spray out the solvent into a waste bucket (make sure you are wearing respirator and eye protection).
2. Empty **Cup (#19)** of remaining solvent and repeat the process until the **Cup (#19)** solvent appears clean and free of the paint.
3. Disconnect air supply. Remove surplus solvent and wipe the **Cup (#19)** clean with a lint free cloth.

Note: The **Cup (#19)** may be fully immersed in solvent for no more than 24 hours if needed.

4. Remove the **Air Cap (#3)** and the **Ring (#4)**. Remove the **Brass Ring (#5)** and unscrew the **Fluid Nozzle (#6)**, and remove it. Use the **Brush (#1)** to clean the **Paint Needle (#14)** with solvent. When replacing the **Fluid Nozzle (#6)**, do not overtighten. Overtightening of the **Fluid Nozzle (#6)** will result in leakage. Unscrew the **Fluid Control Knob Lock (#17)** and remove the **Fluid Control Knob (#18)**. Use the **Brush (#1)** to clean the gun body opening that the **Fluid Control Knob (#18)** fits in, and clean all of the parts. Reassemble gently. Parts may be damaged if forced into place.

Note: Always dispose of paints and solvents properly. Consult the local hazardous waste authority for proper disposal procedures and sites.

Parts List

Note: To order parts included in a lettered set, you must order the entire set.
 Set A (Air Adjusting Valve Assembly) includes parts A1, A2, A3, A4, A5, 34.
 Set B (Cup) includes 19, 20.
 Set C (Lid) includes 22, 23.
 Set D (Needle Valve Assembly) includes 14, 15.
 Set E (Spray Assembly) includes 34, 35, 36, 37, 38, 39.
 Set F (Air Valve Assembly) includes 24, 25, 26, 27, 28, 29, 30.

Part No.	Description	Part No.	Description
1	Brush	22	Lid Nut
2	Wrench	23	Lid
3	Air Cap	24	Screw
4	Ring	25	Pin
5	Brass Cap	26	Body
6	Fluid Nozzle	27	PC Seal
7	Packing Screw	28	Valve
8	Teflon Seal	29	Valve
9	Washer	30	Spring
10	Spring	31	Trigger
11	Brass Ring	32	Screw
12	Gasket	33	Pin
13	Gun Body	34	Washer
14	Paint Needle	35	Spray Regulating Screw
15	Paint Needle Nut	36	Teflon Seal
16	Paint Needle Spring	37	Spray Regulating Nut
17	Fluid Control Knob Lock	38	Control Knob
18	Fluid Control Knob	39	Countersunk Screw
19	Cup	40	Air Connector
20	Adapter	41	Screw
21	Material Sleeve	42	Washer
		43	Connector
		44	Pin

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

Assembly Drawing

Note: To order parts included in a lettered set, you must order the entire set.
 Set A (Air Adjusting Valve Assembly) includes parts A1, A2, A3, A4, A5, 34.
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